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## ABSTRACT OF THE DISCLOSURE

A method of canceling noise in analog circuits is described along with noise cancellation circuits. Analog circuits are sensitive to noise. Especially in mixed signal environments where digital circuits and analog circuits are combined, the noise generated by relatively noisy digital circuits often cause the analog circuits to produce incorrect output signals. Instead of shielding or separating the susceptible analog circuits from noisy digital circuits, additional circuitry is added where one of the added circuits, denoted as the noise separator circuit, produce only the noise component of the output signal, the first output, of the analog circuit adversely affected by the noise. Then, another circuit is used to subtract the noise from the first output, thereby producing a noise-free output signal. Alternatively, the noise separator circuit can be made to produce the inverse of the first output, including the inverse of the noise. Then, the first output and the inverse output can be added and halved to produce the desired, noise-free output.

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